

CLAIMS:

1. In an information processing system including a central processor for generating commands to process storage data stored and for executing a sequence processing and a storage subsystem connected to said central processor, said storage subsystem including a plurality of storage media for transferring data between said plurality of storage media according to commands from said central processor, a data recovery method of recovering data to a predetermined state at occurrence of a failure in a sequence of processing executed by said central processor, comprising the steps of:

issuing, from said central processor to said storage subsystem before a sequence of processing is executed by said central processor, a saving request to save in said plurality of storage media a copy of data stored in either one of said plurality of storage media used in the sequence of processing, and saving by said storage subsystem in response to the saving request a copy of data of said storage media;

storing by said storage subsystem, when contents of data of either one of said storage media are updated, differential information including a storage area of the data updated;

issuing, when it is necessary to recover contents stored in either one of said plurality of storage media to a state of a predetermined point, a data recovery request from said central processor to

said storage subsystem; and

restoring, by said storage subsystem according to the differential information in response to the data recovery request, the copy of data in said either one of said storage media.

2. A data recovery method according to Claim 1, wherein said plurality of storage media include a plurality of disks.

3. A data recovery method according to Claim 1, wherein said saving request and said recovery request are issued from a control terminal connected to said storage subsystem.

4. A data recovery method according to Claim 1 or 3, wherein said saving of the copy of data includes:

storing data equal to data of either one of said plural storage media; and

saving the copy of data on a second storage media of said plurality of storage media, said second storage media and said either one of said plural storage media being disposed in a duplicated fashion.

5. A data recovery method according to Claim 4, wherein said saving of the copy of data includes:

assigning either one of said plural storage media that is not utilized as said second storage media; and

copying data from said either one of said plural storage media onto said second storage media.

6. A data recovery method according to Claim 1,

wherein said restoring of data is conducted, according to the differential information, for an area updated by the sequence of processing.

7. A storage subsystem for transferring data according to a request from a central processor which generates commands to process data storage, comprising:

a plurality of storage media;

means for creating, in response to a command from said central processor, a second disk keeping a copy of data stored in a first storage media of said plurality of storage media;

means for updating, in response to a data update request from said central processor, data in said first storage media and for generating differential information for identifying an update area; and

means for replacing, according to the differential information in response to a data recovery request from said central processor, data in an area updated in said first storage media with data saved in a storage area of said second storage media, the storage area of said second storage media corresponding to the area updated in said first storage media.

8. A storage subsystem according to Claim 7, wherein said plurality of storage media include a plurality of disks.

9. In an information processing system including a central processor for generating commands to process storage data stored and for executing a sequence

processing and a storage subsystem connected to said central processor, said storage subsystem including a plurality of storage media for transferring data between said plurality of storage media according to commands from said central processor, a data recovery method of recovering data to a predetermined state at occurrence of a failure in a sequence of processing executed by said central processor, comprising the steps of:

restoring, in response to a restoring request from said central processor, backup data of data kept in a first storage media storing data of a logical volume to be accessed by said central processor onto a second storage media;

relating said logical volume to said second storage media in response to a swap request from said central processor; and

accessing data in said second storage media in response to an access request from said central processor to said logical volume.

10. A data recovery method according to Claim 9, wherein said plurality of storage media include a plurality of disks.